



PATENT ABSTRACTS OF JAPAN

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NAKA SHINGO****(54) TRANSFERRING EQUIPMENT OF SPENT RESIN****(57) Abstract:**

PURPOSE: To improve an operation efficiency of a radioactive waste disposal system by a method wherein a waste liquid of low conductivity from a low conductivity waste liquid collecting tank is made to flow as washing water into a resin transfer piping including an outlet valve and thereby the resin transfer piping and an outlet valve element are washed.

CONSTITUTION: When a liquid level in a spent resin receiver tank 1 reaches a prescribed value, a liquid level detector detects this. With an outlet valve 2 opened on the basis of detection, a transfer pump 4 is operated to transfer spent resin 7 in the spent resin receiver tank 1, together with transfer water, to a storage tank. The completion of transfer is judged by detection of a low-low liquid level by the liquid level detector, the outlet valve 2 is closed and the transfer pump 4 is stopped. Simultaneously with this completion of transfer, a waste liquid 13 of low conductivity in a low-conductivity waste liquid collecting tank 10 is supplied as washing water a resin transfer piping 3 and the transfer pump 4 is operated again to wash the inside of the piping. The waste liquid 13 of low conductivity is separated from the spent resin 7 in the storage tank and collected as supernatant water in the collecting

tank 10 so as to be reused. Accordingly, no fresh supply water is needed for washing and thus a capacity of disposal of the whole of a radioactive waste disposal system can be lessened.

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